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ABSTRACT

This revised list includes games/simulations for all age levels, though often most applicable at the secondary through adult levels. In her reviews of available products, the author limited her listings to those games/simulations which are useful for educational purposes and which focus directly on social concerns relative to urban and environmental problems. Categories of the list include as originating or distributing agencies: The University of Michigan; Academic Games Associates, Inc.; Berkeley Gaming Project; Instructional Simulations, Inc.; Simile II; Urbandyne; and others. Each listed game/simulation has an accompanying identifying statement, the names of the entry's developers, number of players, game time, and ordering information including availability of samples. An appendix lists units designed specifically for elementary and/or high school classroom use also sources of information on new products and current game/simulation development. (RE)

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EXTENSION GAMING SERVICE

(313) 763-1010

A SELECTED LIST

OF URBAN, ENVIRONMENTAL AND SOCIAL PROBLEM

GAMING / SIMULATIONS

We do not intend this list to be definitive, but hope it will be useful as a starting point for obtaining further information about specific games. We have tried to omit gaming/simulations not considered useful for some educational purpose, as well as those which do not focus on one or another "social concern".

We often are asked which age group a particular games is best suited for. One of the beauties of games is that they are, as the advertiser likes to say, "suitable for all ages"--at least junior high and up. In fact, we find that young people play more easily and more fully, since they are less inhibited and more willing to experiment.

Nevertheless, we have omitted from the list those games designed principally for use within the classroom situation and have appended a list (incomplete) of sources of brochures on games specifically for elementary and high school people. THE APPENDIX ALSO CONTAINS OTHER SOURCES OF GAMING INFORMATION.

*An asterisk before a game indicates that more detailed information about it may be obtained from the Extension Gaming Service. Please consult the Price List for cost, if any. Further information about other games should be requested from the distributor and/or game developer.

Barbara Steinwachs

February 1976

THE EXTENSION GAMING SERVICE provides consultation on and assistance in using and designing serious games and simulations for professional, educational, community, and civic groups. Our immediate staff includes Barbara Steinwachs, Terry Anderson, and Leonard Suransky -- and we frequently draw upon the expertise of other University of Michigan gamers.

SE 020 485

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I. DEVELOPED BY GAMERS AT THE UNIVERSITY OF MICHIGAN

Acclimb
Coping with an alien culture or subculture

Developed by: Leonard Suransky, Ansell Horn, Barbara Steinwachs with The University of Michigan's International Center
Players: 14-60
Time: 2-4 hours

Instructions not yet complete, available ($3.00) from:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109
(313) 763-1010

The game could be run from these instructions with some design additions.

***Bridges**
Planning as a learning process; decision-making under risk and uncertainty

Developed by: A. Bechhoefer, R. Gantz, M. Lee, C. Nuttal, M. Rycus, and S. Sommarstrom
Players: 9-30
Time: 2-3 hrs.

More information can be obtained from:
Arthur S. Bechhoefer
Urban and Regional Planning
School of Natural Resources
University of Michigan
Ann Arbor, MI 48109

***CLUG (Community Land Use Game)**
Urban and regional economics

Developed by: Allan G. Feldt
Players: about 15
Time: 6 hours or, preferably, longer.

Player's Manual ($4.95) with basic model, experiments (variations), and readings; and Instructor's Manual (gratis) with simple playing pieces published 1972 by:
The Free Press
Department FNY
Riverside, NJ 08075

Complete kit ($75) available from:
Urbex Affiliates, Inc.
P.O. Box 2198
Ann Arbor, MI 48106
(313) 973-2233

COMPACTS (Community Planning and Action Simulation)
urban social service system

Developed by: Armand Lauffer
Players: 20-60
Time: 3 hr. - 3 days

Complete kit ($85) available from:
Gamed Simulations, Inc. (GSI)
FDR Station
Box 1747
New York, NY 10022

*The End of the Line

The difficulties of growing old, and of servicing the elderly

Developed by: Frederick Goodman
Players: 20-60
Time: 2-3 hrs.

Complete manual (with "make-your-own materials" section) available ($ 5.50) from:
Publications
The Institute of Gerontology
University of Michigan
520 E. Liberty
Ann Arbor, MI 48109
(313) 763-1325

Complete kit available ($75 plus postage) from:
Urbex Affiliates, Inc.
P.O. Box 2198
Ann Arbor, MI 48106
(313) 973-2233

*The Helping Hand Strikes Again

The problems arising between People in need of help and those groups who attempt to help them. The game can be adapted with some effort to specific helper-helpee relationships.

Developed by: Frederick Goodman
Players: 25-50
Time: 3 or more hours

Not yet available in a "package" but runs of the game may be arranged through:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109
(313) 763-1010

IMPASSE? (the IMPact ASSEssment game)

Game-like exercise facilitating planning, evaluation, dialogue, consensus-reaching

Developed by: Richard D. Duke and Cathy S. Greenblat
Players: any number
Time: variable

Complete instructions (with necessary forms) available in:
"Game-Generating Games for Community and Classroom" (also contains "At Issue!" and "Conceptual Mapping Game"), a publication of:
Little Brown and Co.
Boston, Mass.

*M.E.T.R.O. - APEX: See Section VIII.

*Metropolis: See Section VIII.

Hand-computed version available from:
Gamed Simulations Inc.
P.O. Box 1747/FDR Station
New York, NY 10022

Starter kits: $25/ Leader's Guide: $5
Participant's Manual: $3
Computation Forms: $10

Piece of Mind

The delivery of Mental Health Services to a community: problems arising between those in possible need of help and those trying to help them

Developed by: Ansell Horn and Barbara Steinwachs
Players: 25-80 (30-60 optimum)
Time: 3-4 hours

Not yet available in a "package", but runs can be arranged through:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109
(313) 763-1010

*Policy Negotiations

A priming game on allocation and use of influence in the decision making process.

N.B. Modification (To subject matter of interest to group playing) integral to game

Developed by: Frederick Goodman
Players: 6 or more (20-35 optimum)
Time: Priming Game: 2-3 hours
Re-design Time: 1-many hrs.
Re-play Time: 2-3 hrs.

Complete kit ($75) available from:
Urbex Affiliates, Inc.
P.O. Box 2198
Ann Arbor, MI 48106
(313) 973-2233

See Appendix, Item IV, Entry 4 for information on Urban Games, four adaptations by Margaret Warne Monroe.

Instructions for a simplified version from which groups may build their own game from scratch available for $3 from:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109

Sample content ("Family Negotiations") available for $2, also from Extension Gaming Service

*Policyplan

A general-purpose planning model. A number of versions currently exist: "Housingplan," "Drugplan," "Actionplan" (community development).

For information about the model or about a game run, contact:
Larry C. Coppard
School of Education
University of Michigan
Ann Arbor, MI 48109

A computer program for use on the IBM 360 and Univac 1108 is available.

PPOM (Population Policies Orientation Model)

State and national planning with respect to economic, demographic, social, and political development

In process of development by:
Allan G. Feldt
Players: 15-30 optimum
Time: 4-6 hrs.

Not yet available

*Rummage-ing

A priming game structure for adaptation to virtually any content area

Developed by: Ansell Horn and Fred Goodman
Players: 2 or more (no limit)
Time: 2 hr. or more

Complete instructions ($4) available from:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109

*SIMSOC (Simulated Society)

The establishment and maintenance of social order

Developed by: William A. Gamson
Players: 20-50
Time: 6-8 1-hr. sessions

Players Manual ($4.95) and Instructors Manual (gratis) available from:
The Free Press
Department FNY
Riverside, NY 08075
(forms included)

Staff Training Poker (STP) Game
The dilemma of staff development trainers, and of some middle managers and educators

Developed by: Mitch Rycus and staff of Extension Gaming Service
Players: 10-48
Time: 2-3 hours

Instructions not yet available, but information can be obtained from:
Extension Gaming Service
412 Maynard
Ann Arbor, MI 48109
(313) 763-1010

*They Shoot Marbles, Don't They?
Rules and their enforcement

Developed by: Frederick Goodman and Robert Parnes
Players: 8-50 (20-35 optimum)
Time: 2 1/2 hours. or more

Directions ($4) available from:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109
(313) 763-1010

Complete kit ($40) available from:
Urbex Affiliates, Inc.
P.O. Box 2198
Ann Arbor, MI 48106
(313) 973-2233

Turn-On (Tapping Untapped Resources Now-Or Never)
Area planning for the aging

Developed by: Armand Lauffer, Roger Mills, Tom Morton
Players: 25-50
Time: 2 1/2 hrs.

For information, write:
Tom Morton
Project T.A.P.
The University of Michigan
1015 E. Huron
Ann Arbor, MI 48109

*U-Build
A frame game structure for groups to build their own game(s) in any area related to planning and implementation. Includes a number of ideas for adaptation.

Developed by: Ansell Horn
Players: 12-60 (30 optimum)
Time: 3-many hrs.

Instructions available ($.50) from:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48109
(313) 763-1010

*W.A.L.R.U.S. (Water and Land Resource Utilization Simulation)
Impact of public and private decisions on water pollution

Developed by: Allan G. Feldt & David Moses
Players: 20-30 optimum
Time: 5 hrs.

Directions available from:
Sea Grant Advisory Services
University of Michigan
1101 N. University
Ann Arbor, MI 48109

Complete kit ($75) available from:
Urbex Affiliates, Inc.
P.O. Box 2198
Ann Arbor, MI 48106
(313) 973-2233

*WARD (Community Development Model)
A simulated case-study on community development and housing improvement

Developed by: Marilyn Miller and Larry Coppard, with Carl Rinne
Players: 20-50
Time: several 3-hr. sessions

Fur further information about the game contact:
Larry C. Coppard
School of Education, U-M
Ann Arbor, MI 48109

For facility in updating information during play, a computerized listing of the major portion of the data base is available.

*WHIPP (Why Housing Is a Problem and a Priority)
A look at some causes underlying housing problems (Modified from Sitte-see Section VII)

Developed by: Barbara Steinwachs
Players: 15-30
Time: 2 hrs.

Copies of directions available at ($5) each from:
WHIPP
3431 Mount Read Blvd.
Rochester, NY 14616

PAYMENT MUST ACCOMPANY ORDER.

II. DEVELOPED BY ACADEMIC GAMES ASSOCIATES, INC.

Democracy
Representative government (Legislative process): composite of 8 different games

Players: 6-11
Time: 1/2-4 hrs.

Complete kit ($8) available from:
Bobbs Merrill Company
Education Division
4300 West 62nd Street
Indianapolis, IN 46268
(317) 291-3100

Economic System
Production, marketing, and consumption

Players: 7-13
Time: 2-4 hrs.

Complete kit ($25) available from:
Bobbs Merrill Company
Education Division
4300 West 62nd Street
Indianapolis, IN 46268
(317) 291-3100

Ghetto
Problems of the urban poor

Developed by: Dove Toll
Players: 7-20
Time: 1 hr. or more

Complete kit ($24) available from:
Bobbs Merrill Company
Education Division
4300 West 62nd Street
Indianapolis, IN 46268
(317) 291-3100

Life Career
The implications of current time allocation and other choices for future career

Developed by: Sarane S. Boocock
Players: 2-30
Time: 2-10 hrs.

Complete kit ($47) available from:
Bobbs Merrill Company
Education Division
4300 West 62nd Street
Indianapolis, IN 46268
(317) 291-3100

III. DISTRIBUTED BY BERKELEY GAMING PROJECT

El Barrio
The forces affecting a Latin immigrant to the big city in North America

Developed by: Meier and Langdon
Players: 7-15 (9 optimum)
Time: 2-3 hrs.

Complete kit ($25) available from:
Berkeley Gaming Project
Institute of Urban & Regional Develop
316 Wurster Hall
University of California-Berkeley
Berkeley, CA 94720

Wildlife
The moose-beaver-wolf-vegetation system of a national park

Developed by: Richard Meier
Players: 2-6 (3 optimum)
Time: 3-? hrs.

A pure simulation

Complete kit ($25) available from:
Berkeley Gaming Project
Institute of Urban and Regional Development
316 Wurster Hall
University of California-Berkeley
Berkeley, CA 94720

IV. DISTRIBUTED THROUGH INSTRUCTIONAL SIMULATIONS, INC.

Blight
Urban ecology

Players: 20-40
Time: 3-8 hrs.

Complete kit ($42.50) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

Campaign
State legislative races

Players: 23-40
Time: 10-12 hrs.

Complete kit ($125) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

F.L.I.P. (Family Life Income Patterns)
Family budgeting, investment, credit and interest in terms of changing family goals

Players: up to 30
Time: 2-8 hrs.

Complete kit ($34) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

Impact
Community action in problem-solving situations

Players: 20-50
Time: 8-20 hrs.

Complete kit ($160) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

InForce
Criminal justice

Players: 25-35
Time: 8-20 hrs.

Complete kit ($65) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

Tracts
core city land use

Players: 20-40
Time: 2-8 hrs.

Complete kit ($39.00) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

Transit
Urban transportation

Players: 20-40
Time: 4-10 hrs.

Complete kit ($42.50) available from:
Instructional Simulations, Inc.
2147 University Avenue
St. Paul, MN 55114

V. DISTRIBUTED BY SIMILE II

BaFá BaFá: A Cross-Culture Simulation
Interacting with another culture or subculture

Developed by: R. Garry Shirts
Players: 16-40
Time: 1½ hrs.

Directions ($3.50)
Complete kit ($[illegible]) available from:
Simile II/ 218 Twelfth St.
P. O. Box 910
Del Mar, CA 92014
(714) 755-0272
Children's version (Ra Fá Ra Fá) also available.

Conflict
Disarmanent and world peace

Developed by: Gerald Thorpe
Players: 27-42
Time: 5-8 periods of 50 min. each

Directions ($7.50)
Complete kit ($50) available from
Simile II
P.O. Box 910
Del Mar, CA 92014 (714) 755-027

Crisis
International conflict

Players: 18-36
Time: 2-4 hrs.

Sample set ($3)
Complete kit ($25 or $30) available
Simile II
P.O. Box 910
Del Mar, CA 920 14
(714) 755-0272

Humanus
Value decisions in a world-wide catastrophe "survival" situation

Developed by: Paul A.Twelker and Kent Layden
Players: 5 or more
Time: 1½ - 3 hrs.

Complete kit (includes cassette tape) available ($10.00) from:
Simile II
P.O. Box 910
Del Mar, CA 920 14
(714) 755-0272

Metropolitics
Varying types of metropolitan government

Players: 18-35
Time: 1-2 hrs.

Sample set ($3)
Complete kit ($25) available from:
Simile II
P. O. Box 910
Del Mar, CA 920 14
(714) 755-0272

Napoli (NAtional POLItics)
Legislative process and representative nature of democracy

Players: 8-36
Time: 2-4 hrs.

Sample set ($3)
Complete kit ($35 or $50) available
Simile II
P.O. Box 910
Del Mar, CA 92014
(714) 755-0272

New City Telephone Co.
The privately-owned government-regulated corporation; labor-management relations; work values; leadership; career choice

Developed by: R. Garry Shirts
Players: 5-30
Time: 2-3 hrs.

Complete kit ($15) available from
Simile II
P.O. Box 910
Del Mar, CA 92014
(714) 755-0272

Plans
Conflicting interest groups attempt to change American society

Players: 12-36
Time: 3-8 hrs.

Sample set ($3)
Complete kit ($35 or $50) available from:
Simile II
P.O. Box 910
Del Mar, CA 92014
(714) 755-0272

Plea Bargaining
Nonadjudicative convictions & acquittals--and criminal justice
Developed by: Ethan Katsh, Ronald M. Pipkin, Beverly Schwartz Katsh
Players: 4-35
Time: 4 hrs.

Complete kit ($17.50 or $25) available from:
Simile II
P. O. Box 910
Del Mar, CA 92014
(714) 755-0272

Police Patrol
Police problems and responsibilities

Developed by: Todd Clark
Players: 20-35
Time: 1 hr. or more

Complete kit($12.50) available from:
Simile II
P. O. Box 910
Del Mar, CA 92014
(714) 755-0272

Sitte
Conflicting interest groups work to change a city

Players: 10-30
Time: 2-4 hrs.

Sample set ($3)
Complete kit ($35 or $50) available from:
Simile II
P.O. Box 910
Del Mar, CA 92014
(714) 755-0272

Starpower
The nature of power; the "haves" and the "have-nots"

Developed by: R. Garry Shirts
Players: 15 or more
Time: 2 1/2 hrs.

Directions ($3)
Complete kit ($25) available from:
Simile II
P.O. Box 910
Del Mar, CA 92014
(714) 755-0272
Children's version, "Powderhorn", also available ($15).

VI. DEVELOPED BY URBANDYNE

The Church Resources Game
The mission of the church and resource utilization

Developed by: John-Robert McFarland
Players: 6-30
Time: 1-2 hrs.

Complete kit (9.95) available from:
Urbandyne
P.O. Box 134
Park Forest South, IL 60466
(312) 534-9028

Or From:
Simulation Sharing Service ($10.00)
221 Willey Street
Morgantown, W. Va. 26505

Edge City College
Strategies and processes of a college or university

Players: 15-30
Time: 3-4 hrs.

Complete kit ($35) available from:
Educational Manpower, Inc.
P.O. Box 4272-B
Madison, WI 53711

Urban Dynamics
Basic structures and interlocking systems in the growth and development of a northern U.S. metropolitan area, with emphasis on the varied socio-economic groups who were/are the major actors, 1920 and forward.

Players: 12-30
Time: 4-6 hrs.

Complete kit ($95) available from:
Urbex Affiliates, Inc.
P.O. Box 2198
Ann Arbor, MI 48106
(313) 973-2233
Audio-visual package on game introduction and de-briefing also available ($15).

Youth Culture Game
"A total environment improvisational theater game"

Players: 20-80
Time: 2 hrs.

Complete instructions ($15) available from:
Educational Manpower, Inc.
P.O. Box 4272-B
Madison, WI 53711

VII. MISCELLANEOUS

*Alternative Approaches to Land Development
Traditional vs. comprehensive planning

Developed by: John Stainton
Players: 3 or more (12-24 optimum)
Time: 1-3 hr.

Complete instructions (with directions for making materials) available for $5.00 from:
Extension Gaming Service
412 Maynard Street
Ann Arbor, MI 48104
(313) 763-1010

Baldicer
World food situation

Developed by: Georgeann Wilcoxson
Players: 10-20
Time: 6-8 rounds of 15-20 min. each, minimum (3 hr. optimum)

Complete kit ($25) available from:
John Knox Press
Box 1176
Richmond, VA 23209 OR FROM:

Distribution Service
341 Ponce de Leon NE
Atlanta, GA 30308

Cities Game
Urban tension and negotiation

Players: 4-16
Time: 1-2 hrs.

Complete kit available in your local bookstore and/or department store, or at $7 from:
Ziff/Davis Consumer Services Division
595 Broadway
New York, NY 10012

COG (Coalesce, Oppose, or Grapple)
Federal revenue sharing

Developed by: Phillip H. Gillispie, Steven E. Greenfield, Phillip R. Bratnober
Players: 15-50
Time: 2 1/2 hrs.

Complete kit ($25) available from:
j j mar-tam & associates
c/o Phillip Gillispie
SCAP
75 Lafayette St.
Schenectady, N.Y. 12305

Consensus
Presidential electoral strategy

Developed by: John Reed Koza
Players: 2-4
Time: 2 hrs. or more

Complete kit ($7.95) available from:
Scientific Game Development Corp.
Box 427
Ann Arbor, MI 48107

Dirty Water
Water pollution and ecological balance

Developed by: Judith Anderson Helen Trilling, Roger Moody, and Rich Rosen
Players: 2-4
Time: 1-2 hrs.

Complete kit ($10) available from:
Damon Educational Division
80 Wilson Way
Westwood, MA 02090

Ecology
Bringing population, technology, and natural environment into workable balance

Players: 2-4
Time: about 2 hrs.

Complete kit ($10) available from:
Damon Educational Division
80 Wilson Way
Westwood, MA 02090

Futures
Cross-impact of possible future developments

Developed by: Olaf Helmer, T.J. Gordon, and Hans Goldschmidt
Players: 4-12
Time: 1 hr.

Kits are currently "out of print".
For information contact:
Olaf Helmer and Theodore Gordon
Institute for the Future
Riverview Center
Middletown, CT 06457

Indian Reservation

Life Today on the Northern Plains

Developed by: Ron Stadsklev
Players: 12+
Time: 3-6 hours

Complete kit ($10) available from:
Institute of Higher Education
Research and Services
The University of Alabama
P.O. Box 6293
University, AL 35486

The Inter-Nation Simulation

National politics and international relations

Developed by: Harold Guetzkow
Adapted by: Clec H. Cherryholmes
Players: 15-48
Time: several 50-minute sessions or fewer longer sessions

Complete high school or college kit and manuals available from:
Science Research Associates, Inc.
259 East Erie Street
Chicago, ILL 60611

The Jail Puzzle

Pre-trial criminal justice system

Developed by: Bernie DeKoven
Players: 14-25
Time: 2 1/4 - 3 hours

Complete kit ($1) available from:
Rev. Dave Wasserman
c/o P.T.S.
616 N. Highland Ave.
Pittsburgh, PA 15206

Lobbying Game

Lobbying process in state legislature

Developed by: David Williams and Stanley Blostein
Players: 20-60
Time: 2 1/2 - 5 hours

Complete kit available from:
Games Group II
P.O. Box 2088
Brandeis University
Waltham, MA 02154

OR FROM ($85):

Gamed Simulations, Inc. (GSI)
FDR Station
Box 1747
New York, NY 10022

Mahopa
The history and culture of the North American Indian

Developed by: Interact
Players: about 15-40
Time: 4-hours or more (in periods of 1 hour ea.)

Available for $12 from:
Interact
P.O. Box 262
Lakeside, CA 92040

The Marriage Game
Understanding marital decision making

Developed by: Cathy Greenblat, Peter J. Stein, Norman F. Washburne
Players: 2 or more (played in pairs)
Time: 7-10 rounds of 50 min. each

Available for $4.95 from:
Random House
201 E. 50th Street
New York, NY 10022

Order Code: 31678

New Town
New Community development

Developed by: Barry Ross Lawson
Players: 3-20
Time: 1½ hrs. or more, depending on version played.

Kits at varying levels of complexity available from:
Harwell Associates, Inc.
P.O. Box 34
Berkeley Heights, NJ 07922

The Poverty Game
The dynamics of poverty in affluence

Developed by: Jim Egbert
Players: 10 or more
Time: less than 1 hr.

For Directions contact:
Colloquy Magazine
1505 Race Street
Philadelphia, PA 19102
(March 1969 issue-50¢)
or
United Church Press
391 Steel Way
Lancaster, PA

The Road Game
Competition, cooperation, communication and conflict resolution

Developed by: Barbara Ellis Long and Thomas E. Linehan
Players: 16-24 (more ok)
Time: 1½ hrs.

Game (Teacher and Student Manual) published by:
Herder and Herder
232 Madison Ave.
New York, NY 10016

Also see Appendix, Item XI, 3rd entry.

Serfdom
Roles and goals imposed on individuals and groups by the system; a simulation in class achievement and organizational structuring

Developed by: Pat Bidol, Ann Kramer, Ginny Stewart, and Fr. James Trent
Players: 21 or more (27 optimum)
Time: 1½ hrs.

Available (75¢) from:
Simulation Games Center
221 Willey Street
Morgantown, WV 26503
PLEASE SEND LARGE SELF-ADDRESSED DOUBLE-STAMPED ENVELOPE.

OR from: ($1.00)
People Acting for Change Together
Wayne County Community College
4612 Woodward
Detroit, MI 48201

Square Mile
Land development

Players: 2-4

Complete kit available from:
Milton Bradley Company
Springfield, MA

U-DIG (Urban Development Investment Game)
Residential development in an urban neighborhood

Developed by: Ervin J. Bell
Players: 4-16 optimum
Time: 3-5 hrs. for basic time. Variations may then be played.

Information may be obtained from:
Ervin J. Bell
Associate Professor of Design
College of Environmental Design
University of Colorado
Boulder, CO

Welfare Week
Living on a welfare food budget and confronting welfare-related problems

Originally developed by: The Berea Presbyterian Church, St. Louis, MO
Players: one or more households
Time: a one-week living experience

Instructions and forms ($50) available from:
Gamed Simulations, Inc. (GSI)
FDR Station
Box 1747
New York, NY 10022

Yes, But Not Here
The poverty and isolation of the elderly in affluent suburban communities

Available from:
The Macmillan Company
School Division
Department SNY
Riverside, NJ 08075

World Population/Land Area/Resources/Food Simulation Experience

Developed by: John T. Conner
Players: 20-200
Time: 1 hr. or more

Available (35¢) from:
John T. Conner
101 N.W. 23rd St.
Corvallis, OR 97330

VIII. COMPUTERIZED GAMING/SIMULATIONS

City I
Economic, political, and social interaction towards a developing city

Developed by: Peter House
Players: 25-100
Time: 1 day or more
Computer Needed: IBM 1130 (min, 8K core storage, single disk drive)

Although a workable game of substantial quality and character, City I is not available through any formal distribution mechanism. Universities known to be using the Model in some form are, among others:
Howard University (Washington DC)
University of Michigan (Ann Arbor)

*M.E.T.R.O. - APEX

Physical and economic development of a metropolitan area, with emphasis on air pollution control

Developed by: Richard D. Duke, in collaboration with staff of Environmental Simulation Laboratory (University of Michigan), and the COMEX Research Project and the Air Pollution Control Institute of The University of Southern California.

Players: 30-60 Optimum, but fewer or more ok
Time: several cycles of 4-5 hrs. each
Computer Needed: IBM 1130 (min, 8K core storage single disk drive) or 360-370 (min, 360-40; 256K, but 128K is possible)

For computer program costs and training fees, contact:
Richard McGinty
Director, COMEX Project
The University of Southern California
3601 S. Flower, Tyler Bldg.
Los Angeles, CA 90007
(213) 746-6569

MANUALS available from:
ERIC Document Reproduction Service (EDRS)
P.O. Box 190/Arlington, Va. 22210
(703) 841-1212

Send basic cost plus postage:
$.18 for first 60 pp.
Plus $.08 for each additional 60 pp.

Orders must be placed under the following ED numbers.

ED #	VOL	MANUAL TITLE	MICROFICHE	PAPER COPY	PAGES
ED 104 697	1.1	Game Overall Director's Manual-Revised	$.76	$ 9.51	187
ED 104 698	2.1	Computer Operator's Man. (360 Computer-Revised)	.76	13.32	267
ED 104 699	3.1	City Politician's Manual--Revised	.76	6.97	141
ED 104 700	4.1	County Politician's Manual--Revised	.76	6.97	141
ED 104 701	5.1	Planner's Manual--Revised	.76	5.70	115
ED 104 702	6.1	Environmental Qual. Manager's Manual--Revised	.76	4.43	83
ED 104 703	7.1	Air Pollution Control Officer's Man--Revised	.76	5.70	118
ED 104 704	8.1	Water Quality Manager's Manual--Revised	.76	4.43	100
ED 104 705	9.1	Solid Waste Manager's Manual--Revised	.76	5.70	104
ED 104 706	10.1	Developer's Manual--Revised	.76	5.70	111
ED 104 707	11.1	Industrialist's Manual #1--Revised	.76	6.97	149
ED 104 708	12.1	Industrialist's Manual #2--Revised	.76	6.97	149
ED 104 709	13.1	Industrialist's Manual #3--Revised	.76	6.97	149
ED 104 710	14.1	Industrialist's Manual #4--Revised	.76	6.97	149
ED 104 711	15.1	Industrialist's Manual #5--Revised	.76	6.97	149
ED 104 712	16.1	Industrialist's Manual #6--Revised	.76	6.97	149
ED 104 713	17.1	Industrialist's Manual #7--Revised	.76	6.97	150
ED 104 714	18.1	Legal Reference Manual--Revised	.76	6.97	131
ED 104 715	19.1	City Manager & County Admin. Officer's Man.--Rev.	.76	6.97	132
ED 104 716	20.1	News Media Manual--Revised	.76	3.32	74
ED 104 717	21.1	Pressure Groups Manual--Revised	.76	5.70	120

Coding instructions, worksheets, and keypunch sheets are included in Volumes 1.1 and 2.1.

*Metropolis

Metropolitan growth and development, with emphasis on capital budgeting and public expenditure

Developed by: Richard D. Duke
Players: 9 is best for one game; 2 or 3 games ("cities") can be run simultaneously
Time: several cycles of about 1 hour each
Computer Needed: IBM 1130 (min. 8K core storage, single disk drive) is most convenient, but IBM 360/370 version is available.

Computer and Manual version available in book form from:
Gamed Simulations, Inc.
P.O. Box 1747
FDR Station
New York, NY 10022

*Policyplan: See Section I

River Basin Model

An extension of City IV (see City I above), this version is based on a large city and its surrounding watershed.

Developed by: Peter House and staff

Players: 20-120

Time: 1 day or, preferably, longer

Computer Needed: Standard program distributed requires IBM 360/370 with 190K partition under OS and a dedicated disk pack.

See Section I of this list for details

For information on computer program, contact:
Don Kiel
School of Natural Resources
The University of Michigan
Ann Arbor, MI 48109
(313) 764-4293

For further information regarding the gaming/simulation or a run of it, contact:
Environmental Protection Agency
Environmental Studies Division
Room 1021
Crystal Mall-Building 2
Washington, DC 20460

OR: Philip Patterson
6118 30th St., N.W.
Washington, D.C. 20015

APPENDIX

I. LISTINGS AND BIBLIOGRAPHIES

Handbook of Simulation Gaming in Social Education, ed. Ron Stadsklev (Institute of Higher Education Research Services/Box 6293/University, Alabama 35486). Textbook Section-Part One ($4.50) on the theory, use and design of games. Directory-Part Two ($12) is an amazingly fine collection of basic information on the following: (1) Simulation games relevant to all aspects of "social education"--succinctly described; critiqued with an emphasis on use; and cross-referenced for interest areas (American, Business, Consumer, Drugs, Family, Human Relations, International, Law, Urban, Women), subject areas (Anthropology, Ecology, Economics, Futurism, Geography, Health, History, Political Science, Psychology, Religion, Sociology, Teacher Training), grade level, and costs; (2) Sources, publishers and distributors of simulation games; (3) Simulation gaming action-and-training centers; (4) Dissertations and reports (annotated listing); (5) Bibliographies (also annotated).

The second (revised) edition of the annotated (and rather complete) Guide to Simulation Games for Education and Training (Zuckerman and Horn, ed.) may be obtained for $26 ($24 if payment accompanies order) from Research Media, Inc./4E Midland Ave./Hicksville, N.Y. 11801/(516) 433-5672.

Contemporary Games, ed. Jean Belch. Gale Research Co./Book Tower/ Detroit, MI 48226. Directory: $35. Bibliography: $45.

You Game It is "An Annotated Topical Index of Simulation/Games for Christian Educators", edited by Jim Geaslen. Thorough; annotated; indexed by topic. Available for $3.00 plus postage from Jim Geaslen/ Ashland Theological Seminary/Ashland, Ohio.

Learning with Games, ed. Cheryl L. Charles and Ronald Stadsklev, describes and analyzes seventy social studies educational games and simulations. Also contains an extensive list of sources and resources. $4.95. All orders must be prepaid unless accompanied by an institutional purchase order. Available from: SSEC Publications/855 Broadway/ Boulder, CO 80302. NOW OUT OF PRINT.

Werner and Werner's Bibliography of Simulations: Social Systems and Education (Western Behavioral Sciences Institute/1150 Silverado/ LaJolla, CA) is a very complete book and periodical listing, but through January 1969 only. 178 pp. $4.00.

The Business Games Handbook (by Robert G. Graham and Clifford B. Gray, American Management Association, Inc., 1969) contains related readings and descriptions of a large number of games useful within business and industry.

Gaming: An Annotated Catalogue of Law-Related Games and Simulations is a helpful listing of games under the following topics: Basic Concepts of Law; The Constitution (The Executive, Legislative, and Judicial Branches); The Bill of Rights (Liberty Under Law: First Amendment Freedoms; Justice Under Law: Due Process; Equality Under Law: Women, Youth, and Ethnic Minorities); Current Issues (The City and Its Problems; The Consumer & the Law; Police & Corrections; Public Revenues & Public Services); The Political Process (The Campaign Trail; State & Local Gov't; The Nat'l Scene; The Int'l Arena); Teacher Resources. AVAILABLE FROM: American Bar Association Special Committee on Youth Education for Citizenship/1155 E. 60th St./ Chicago, IL 60637. This publication is "Working Notes, No. 9"; Susan E. Davison, ed..

II.. SOME SIMULATION/GAMING ORGANIZATIONS

NASAGA is The North American Simulation and Gaming Association (an outgrowth of the former National Gaming Council), a professional organization of educators, trainers, and others involved in the design and/or use of simulations and games. Contact person: Richard McGinty/COMEX Project/University of Southern California/ University Park/3601 S. Flower St/Los Angeles, CA 90007.

ISAGA is The International Simulation and Gaming Association.

ABSEL is The Association for Business Simulation and Experiential Learning, an international association of business professors, persons, and government employees dedicated to innovative teaching and research utilizing simulations and other experiential techniques. Contact person: J. Duane Hoover/College of Business Administration/ Texas Tech University/Lubbock TX 79407.

For a comprehensive, annotated listing of other simulation/gaming organizations, action-and-training-centers, and distributors, see Ron Stadsklev's Handbook of Simulation Gaming in Social Education, Part Two: Directory (described in Item I of this appendix).

III. SOME OF THE BEST CATALOGS AVAILABLE FROM DISTRIBUTORS:

Educational Manpower, Inc. (EMI)/P.O. Box 4272/Madison, WI 53711/ (608) 274-4180 is selling under its umbrella a large number of games also offered by a variety of distributors (e.g. Simile II, Urbex, Abt, etc.). Write for their two catalogs: (1) K-6th grade Simulations and Games: Art, Math, Music, Sci., Soc. Stud., Lan. Arts, Phys. Ed.; (2) Jr. High--College Catalog for Social Studies Featuring Simulations/Games/Multi-Media Kits: Poli Sci, Civics, Hist., Geog., Econ., Anthropology, Urban & Community Problems, Alcohol & Drug Ed., Race Relations, Personal Problems, Values, Self, World Problems!

Simile II/218 Twelfth St./P.O. Box 910/Del Mar, CA 92014/(714) 755-0272.

Interact/P.O. Box 262/Lakeside, CA 92040.

IV. A FEW HELPFUL BOOKS

Pfeiffer and Jones are the editors of A Handbook of Structured Experiences for Human Relations Training, a collection of group process and/or sensitivity-type exercises. Most of them can be utilized within a short time span. (University Associates/7596 Eads Ave. La Jolla, CA 92037). Five volumes at $5.00 each.

In Learning Through Simulation Games (Paulist Press/400 Sette Dr. Paramus, NJ 07652/ $7.95), Phil Gillispie describes in detail over twenty-five well known simulation games (even "Monopoly"!) and suggests utilizing them to explore the themes of freedom, life, peace, love, happiness, and communication. There are some factual inaccuracies, but these are more than made up for by including the complete instructions for several original games: Max's Diner (Intergov) --the inter-relationship of city, state, and federal governments; Mission VII --the effect of imposing one culture on another; Disarmament --trust, negotiation, conflict; Mapping --the importance of planning in local churches; Values/Youth Culture --explicit values as the basis for designing and implementing change; COG (Coalesce, Oppose, or Grapple) --the reorganization of the federal process and revenue sharing.

Taking Action: Writing, Reading, Speaking and Listening through Simulation-Games (by Lynn Quitman Troyka and Jerrold Nudelman, Prentice Hall, Inc., Englewood Cliffs, NJ, 1975, $4.70 paper) contains six easy-to-administer simulation games, together with suggested learning exercises in both the communication arts and the subject areas of the games. Each game is built around the same simple frame, or structure. Once you've seen one, you--or the learners you facilitate — can build dozens more on the topics of your choice.

Margaret Warne Monroe has adapted "Policy Negotiations" (See Section I) to four urban problem areas. Urban Games: Four Case Studies in Urban Development illustrates with clarity how "Policy Negotiations" can be utilized as an analytic tool, and then as a planning tool, for any specific social problem. Operator's Manual and Player's Manual available from: Urbex Affiliates, Inc./P.O. Box 2198/Ann Arbor, MI 48106. (Game Operator's manual: $4, Player's manual: $3; Set of one Operator's and ten Player's manuals: $29).

V. NEWSLETTERS

Simulation/Gaming/News is an informative and entertaining six-times-a-year magazine covering the latest developments in simulations and games. Available for $6 per year from S/G/N, Box 3039/University Station/Moscow, ID 83843.

Simulation Sharing Service is an ecumenical service to promote the use of simulation/gaming in the church's ministry. Newsletter features in-depth information on a number of relevant games, often of low-cost. $5 for ten issues from 221 Willey Street/Morgantown, WV 26505.

VI. SOME PUBLICATIONS which sometimes include new developments in gaming and/or simulations among their practical offerings are:

Media and Methods/134 N. 13th Street/Philadelphia, PA 19107 ($7 per year)

Media Mix: Ideas and Resources for Education/221 W. Madison Street/Chicago, IL 60606 ($5 per year)

VII. SOME SOURCES OF GAMES FOR ELEMENTARY AND HIGH SCHOOL USE

A. ABT Associates or Games Central/55 Wheeler Street/Cambridge, MA 02138.
Bobbs Merrill Company/Education Division/4300 West 62nd Street/Indianapolis, IN 46268 (317) 291-3100.
Coca-Cola Bottling Company/Call your local distributor for "Man in His Envoronment" kit.
Creative Publications/P.O. Box 328/Palo Alto, CA 94302.
Damon Educational Division/80 Wilson Way/Westwood, MA 02090.
Educational Games Company/Box 363/Peekskill, NY 10566.
Educational Manpower, Inc./P.O. Box 4272/Madison, WI 53711.
Edu-Game (Creative Classroom Activities) /P.O. Box 114/Sun Valley, CA 91352.
Environmental Design/P.O. Box 683/Chatsworth, CA 91311.
Harwell Associates, Inc./P.O. Box 34/Berkeley Heights, NJ 07922.
Instructional Simulations, Inc./2147 University Avenue/St. Paul, MN 55114.
Interact/P.O. Box 262/Lakeside, CA 92040.
The Macmillan Company/School Division/Dept. SNY/Riverside, NJ 08075.
Pennant Educational Materials/4680 Alvarado Canyon Road/San Diego, CA 92120.
Science Research Associates, Inc./259 E. Erie Street/Chicago, IL 60611.
Scott Foresman & Company/1900 East Lake Avenue/Glenview, IL 60025.
Simile II/P.O. Box 910/Del Mar, CA 92014.
SSEC Publications/855 Broadway/Boulder, CO 80302.
United Church Press/391 Steel Way/Lancaster, PA.

B. Zephyros is a small non-profit group of San Francisco teachers, artists and friends who collect and print practical lesson plans, activities and games developed by classroom teachers. Send $1 for their enticing catalog to: Zephyros Education Exchange/1201 Stanyan St./ San Francisco, CA 94117.

C. Also see: Items I, III, IV, V, VI, VIII, IX, X, XI, and XII (this appendix).

VIII. WFF'N PROOF Publishers offer a number of games which make the learning of logic, mathematics, language, science, and critical analysis genuinely fun. Their emphasis is not on what to think, but how to think. Included are WFF'N PROOF ($8), Equations ($5), On-Sets ($5), Queries 'n Theories ($8), On-Words ($5), The Propaganda Game ($6), and others. Available from: WFF'N PROOF/111-GU Maple Ave./Turtle Creek, PA 15145.

IX. Pennant Educational Materials (4680 Alvarado Canyon Road/San Diego, CA 92120/ (714) 282-8101) offers a variety of short value games for children and adults.

X. The Anti-Defamation League of B'nai B'rith has four large-scale simulation games on new tensions in the schools for use by administrators, teachers, and teacher trainees. Each game recreates on film and in some written work human relations conflicts within potentially destructive situations characteristic of multi-ethnic schools or of schools in transition. Complete kits (including sound films, background materials, manuals, and guides) are priced as follows: Confrontation (for a multi-ethnic elementary school), $410; Valleybrook (for a desegregated elememtary school), $255.50; Lakemont (for a desegregated secondary school), $318,50; Needham (for a school that has become predominantly black), $290. Rental and Preview rates also available. Contact: Ms. Sophie Plick/315 Lexington Ave./New York, NY 10016/(212) 689-7400.

XI. SOME SOURCES OF INFORMATION ON PEACE/WAR/GLOBAL ISSUES GAMING/SIMULATIONS:

Ways and Means of Teaching about World Order: No. 8 (Winter 1972): "Simulating for Peace" lists five simulation games focusing on conflict in the international system. (Prepared by the School Program of the World Law Fund/11 West 42nd St./New York, NY 10036).

Teaching about War and Its Control: A Selective Annotated Bibliography for the Social Studies Teacher, (William A. Nesbitt, ed., 1972) contains games among its many listed resources. (Available from The University of The State of New York/The State Education Dept./Center for International Programs and Comparative Studies/Albany, NY 12224.)

"Teaching Global Issues through Simulation: It Can Be Easy", ed. William A. Nesbitt, is Issue #75 of Intercom, published by the Center for War/Peace Studies, 218 E. 18 Street, New York, NY 10003. Subscription rates vary; single issues $1.50. This issues offers an excellent, readable introduction to using games, particularly within the classroom. Coverage is basic yet comprehensive, including some in-depth discussion of such matters as competition vs. cooperation, etc. Complete instructions for Barbara Ellis Long's The Road Game included; also descriptions of thirteen "global issues" games. Application to global issues is present throughout as well, but on the whole is incidental to the main thrust: beginning to use games.

XII. An instantly-involving and fun game simulating the process of readying and presenting a 6:00 News Program has been developed by Bob Wesolowski and U-M colleagues (37485 Dale Dr. #302/ Westland, MI 48185.) Applicable to composition writing, public speaking, radio and TV programming and filming, etc. Adaptable to exploration of one or more specific content areas.

XIII. Family Pastimes makes and distributes games of co-operation (Play together not against each other). RR4/Perth, Ontario/Canada K7H 3C6.